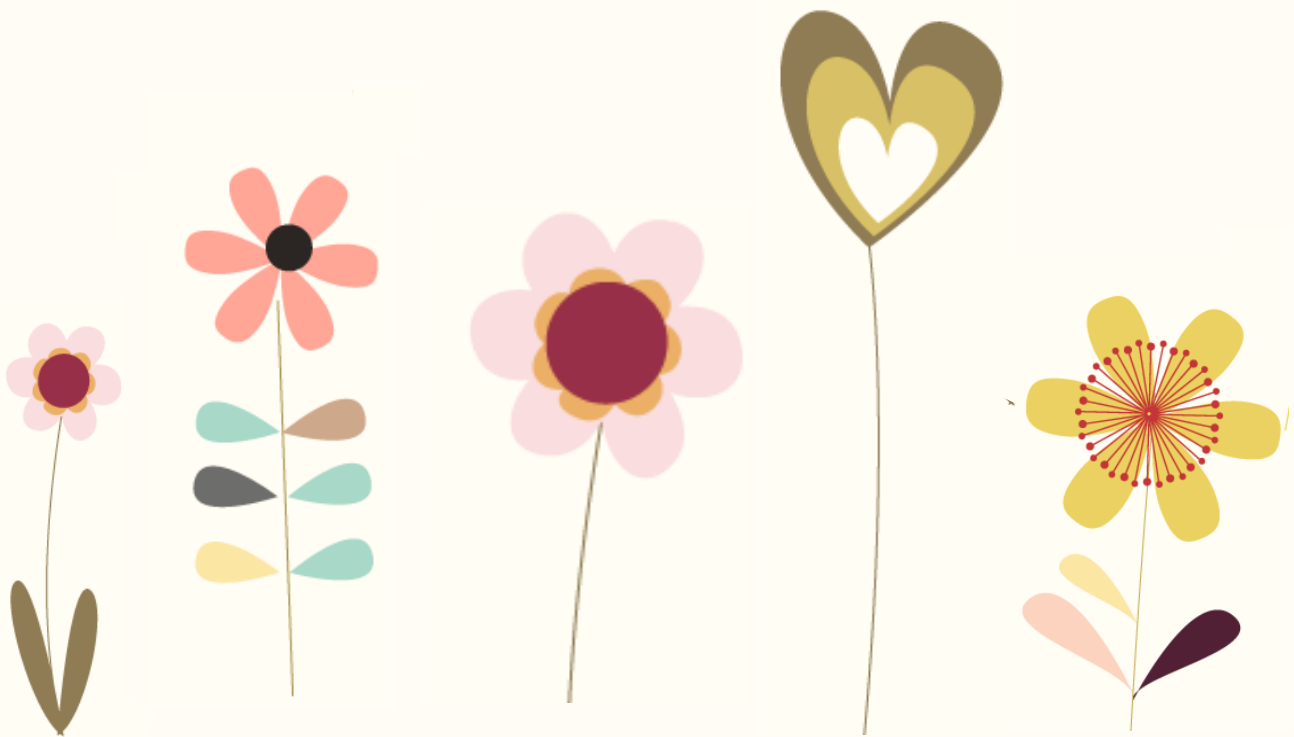


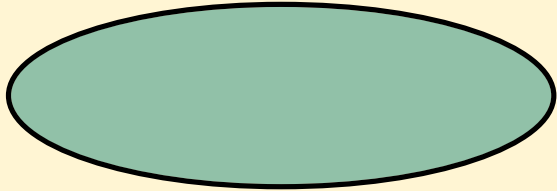
74....More Word Problems!

WooHoo!



Frank is eight years older than his sister. In three years he will be twice as old as she is. How old are they now?

$$\begin{array}{l} f - 8 = s \\ s + 8 = f \\ f - s = 8 \end{array}$$


$$\begin{array}{l} f + 3 = 2s \\ f + 3 = 2(s + 3) \end{array}$$

Karen is twice as old as Lori. Three years from now the sum of their ages will be 42. How old is Karen?

$$K = 2L$$

$$K + \cancel{L} + 6 = 42$$

$$\rightarrow (K + 3) + (L + 3) = 42$$

In January of the year 2000, I was thirteen times as old as my son William. In January of 2009, I was four times as old as him. How old was my son in January of 2000?

$$\begin{aligned} 13w &= m \\ \frac{m}{13} &= w \end{aligned}$$

$$m+9 = 4(w+9)$$

In three more years, Miguel's grandfather will be six times as old as Miguel was last year. When Miguel's present age is added to his grandfather's present age, the total is 68. How old is each one now?

$$M + g = 68$$

$$g + 3 = 6(m - 1)$$



One half of Heather's age two years from now plus one-third of her age three years ago is twenty. How old is she now?

$$\frac{1}{2}(h+2) + \frac{1}{3}(h-3) = 20$$

$$\frac{(h+2)}{2} + \frac{(h-3)}{3} = 20$$